Datasheet for ABIN3116444

KIRREL3 Protein (AA 22-778) (rho-1D4 tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	KIRREL3
Protein Characteristics:	AA 22-778
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIRREL3 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	LQKRGCCLVL GYMAKDKFRR MNEGQVYSFS QQPQDQVVVS GQPVTLLCAI PEYDGFVLWI KDGLALGVGR DLSSYPQYLV VGNHLSGEHH LKILRAELQD DAVYECQAIQ AAIRSRPARL TVLVPPDDPV ILGGPVISLR AGDPLNLTCH ADNAKPAASI IWLRKGEVIN GATYSKTLLR DGKRESIVST LFISPGDVEN GQSIVCRATN KAIPGGKETS VTIDIQHPPL VNLSVEPQPV LEDNVVTFHC SAKANPAVTQ YRWAKRGQII KEASGEVYRT TVDYTYFSEP VSCEVTNALG STNLSRTVDV YFGPRMTTEP QSLLVDLGSD AIFSCAWTGN PSLTIVWMKR GSGVVLSNEK TLTLKSVRQE DAGKYVCRAV VPRVGAGERE VTLTVNGPPI ISSTQTQHAL HGEKGQIKCF IRSTPPPDRI AWSWKENVLE SGTSGRYTVE TISTEEGVIS TLTISNIVRA DFQTIYNCTA WNSFGSDTEI IRLKEQGSEM KSGAGLEAES VPMAVIIGVA VGAGVAFLVL MATIVAFCCA RSQRNLKGVV SAKNDIRVEI VHKEPASGRE GEEHSTIKQL MMDRGEFQQD SVLKQLEVLK EEEKEFQNLK DPTNGYYSVN TFKEHHSTPT ISLSSCQPDL RPAGKQRVPT GMSFTNIYST LSGQGRLYDY GQRFVLGMGS SSIELCEREF QRGSLSDSSS FLDTQCDSSV SSSGKQDGYV

	QFDKASKASA SSSHHSQSSS QNSDPSRPLQ RRMQTHV **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human KIRREL3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	KIRREL3
Alternative Name:	KIRREL3 (KIRREL3 Products)
Background:	Synaptic adhesion molecule required for the formation of target-specific synapses. Required for formation of target-specific synapses at hippocampal mossy fiber synapses. Required for formation of mossy fiber filopodia, the synaptic structures connecting dentate granule and GABA neurons. Probably acts as a homophilic adhesion molecule that promotes trans-cellular interactions and stabilize mossy fiber filipodia contact and subsequent synapse formation. Required for the coalescence of vomeronasal sensory neuron axons. May be involved in the hematopoietic supportive capacity of stroma cells, the secreted extracellular domain is directly responsible for supporting hematopoietic stem cells. {ECO:0000250|UniProtKB:Q8BR86}.
Molecular Weight:	83.9 kDa Including tag.
UniProt:	Q8IZU9

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

